

SEQUENCE LISTING

<110> Reed, Guy L.

<120> Composition and Method for Enhancing Fibrinolysis

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<141> 2001-10-12

<150> 08/934,000

<151> 1997-09-19

<150> 60/026,356

<151> 1996-09-20

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<170> PatentIn version 3.1

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gca tct gtg gga gaa act gtc acc atc aca tgt cga gca agt ggg aat 144  
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att cac aat tat tta gca tgg tat cag cag aaa cag gga aaa tct cct 192  
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro  
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Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Gln	Phe	Ser	Leu	Arg	Ile	Asn	
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Ser	Leu	Gln	Pro	Glu	Asp	Phe	Gly	Ser	His	Tyr	Cys	Gln	His	Phe	Trp	
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Gln	Leu	Leu	Val	Tyr	Asn	Ala	Lys	Thr	Leu	Ala	Asp	Gly	Val	Pro	Ser
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Ala	Ser	Val	Gly	Glu	Thr	Val	Thr	Val	Thr	Cys	Arg	Ala	Ser	Gly	Asn
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Ile	His	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Gln	Gly	Lys	Ser	Pro
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Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn  
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Ser Leu Gln Pro Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp  
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Ser Asn Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
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Gly	Ala	Arg	Cys	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ala	Ser	Leu	Ser	
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gca	tct	gtg	gga	gaa	act	gtc	acc	atc	aca	tgt	cga	gca	agt	ggg	aat	144
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Ala Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn
          15          20          25
Ile His Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro
          30          35          40
Gln Leu Leu Val Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser
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65

70

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cct gga gaa aca gtc aag atc tcc tgc aag gcc tct ggg tat acc ttc 144  
Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
15 20 25

ggt caa gga acc tca gtc acc gtc tcc tca 414  
Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
110 115

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Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
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Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
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Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala His Leu Gln Ile Lys Asn Phe Arg Asn Glu Asp Thr Ala Thr  
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Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe  
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Thr Lys Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
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Lys Trp Met Gly Trp Ile Asn Thr Asn Ser Gly Glu Pro Thr Tyr Ala  
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Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser  
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Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Ser Ala Thr  
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Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
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Gly Gln Gly Thr Ser Val Thr Val Ser Ser  
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Ile	Gln	Ala	Gln	Ile	Gln	Leu	Val	Gln	Ser	Gly	Pro	Glu	Leu	Lys	Lys	
			1				5					10				

cct	gga	gaa	aca	gtc	aag	atc	tcc	tgc	aag	gct	tct	ggg	tat	acc	ttc	144
Pro	Gly	Glu	Thr	Val	Lys	Ile	Ser	Cys	Lys	Ala	Ser	Gly	Tyr	Thr	Phe	
	15					20				25						

aca	aac	tat	gga	atg	aac	tgg	gtg	aag	cag	gct	cca	gga	aag	ggg	tta	192
Thr	Asn	Tyr	Gly	Met	Asn	Trp	Val	Lys	Gln	Ala	Pro	Gly	Lys	Gly	Leu	
	30				35				40					45		

aag	tgg	atg	ggc	tgg	ata	aac	acc	aag	agt	gga	gag	cca	aca	tat	gct	240
Lys	Trp	Met	Gly	Trp	Ile	Asn	Thr	Lys	Ser	Gly	Glu	Pro	Thr	Tyr	Ala	
				50				55						60		

gaa	gag	ttc	aag	gga	cgg	ttt	gcc	ttc	tct	ttg	gaa	acc	tct	gcc	agc	288
Glu	Glu	Phe	Lys	Gly	Arg	Phe	Ala	Phe	Ser	Leu	Glu	Thr	Ser	Ala	Ser	
			65				70						75			

act	gcc	aat	ttg	cag	atc	aag	aac	ctc	aaa	aat	gag	gac	acg	gct	aca	336
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Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
30 35 40 45

Lys Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala  
50 55 60

Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser  
65 70 75

Thr Ala Asn Leu Gln Ile Lys Asn Leu Lys Asn Glu Asp Thr Ala Thr  
80 85 90

Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp  
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Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly Asp Arg Val Thr  
5 10 15 20

atc aca tgt cga gca agt ggg aat att cac aat tat tta gca tgg tat 198  
Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr Leu Ala Trp Tyr  
25 30 35

cag cag aaa cag gga aaa tct cct caa ctc ctg gtc tat aat gca aaa 246  
Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val Tyr Asn Ala Lys  
40 45 50

acc tta gca agt ggt gtg cca tca agg ttc agt ggc agt gga tca gga 294  
Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
55 60 65

aca gat ttt act ctc acc atc agc agc ctg cag cct gaa gat ttt ggg 342  
Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Gly  
70 75 80

agt cat tac tgt caa cat ttt tgg acc act ccg tgg acg ttc ggt gga 390  
Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp Thr Phe Gly Gly  
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ggc acc aag ctg gaa atc aaa 411  
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 110 115

Met Ser Val Leu Thr Gln Val Leu Ala Leu Leu Leu Leu Trp Leu Thr  
-20 -15 -10 -5

Gly Ala Arg Cys Gln Ile Gln Leu Val Gln Ser Gly Ser Glu Leu Lys  
1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser Val  
65 70 75

Thr Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp Thr Ala  
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
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Ala Leu Leu Leu Leu Trp Leu Thr Gly Ala Arg Cys Gln Ile Gln Leu  
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gtg	cag	tct	gga	gct	gag	gtg	aag	aag	cct	gga	gcc	tca	gtc	aag	atc	150
Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ala	Ser	Val	Lys	Ile	
5					10					15					20	

tcc tgc aag gct tct ggg tat acc ttc aca aac tat gga atg aac tgg 198  
Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn Trp  
25 30 35

gtg cga cag gct cca gga caa ggt tta gag tgg atg ggc tgg ata aac 246  
Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Asn  
40 45 50

acc aag agt gga gag cca aca tat gct gaa gag ttc aag gga cgg ttt 294  
Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe Lys Gly Arg Phe  
55 60 65

acc ttc acc ttg gac acc tct acg agc act gcc tat ttg gag atc agg 342  
Thr Phe Thr Leu Asp Thr Ser Thr Ser Thr Ala Tyr Leu Glu Ile Arg  
70 75 80

agc ctc aga tct gac gac acg gct gtg tat ttc tgt gca aga tgg gta 390  
 Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys Ala Arg Trp Val  
 85 90 95 100

cct ggg acc tat gcc atg gac tac tgg ggt caa gga acc acg gtc acc 438  
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Val Ser Ser

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1 5 10

Lys Pro Gly Ala Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr  
15 20 25

Phe Thr Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly  
30 35 40

Leu Glu Trp Met Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr  
45 50 55 60

Ala Glu Glu Phe Lys Gly Arg Phe Thr Phe Thr Leu Asp Thr Ser Thr  
65 70 75

Ser Thr Ala Tyr Leu Glu Ile Arg Ser Leu Arg Ser Asp Asp Thr Ala  
80 85 90

Val Tyr Phe Cys Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr  
95 100 105

Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
110 115

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<211> 41

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<210> 29

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<211> 74

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attcgaagcc gg 72

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24

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21

<210> 36

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cacccagcct gtgcctgcct g

21

<210> 37

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ccaaagtatc caagcacaga

80

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ggcataggtc ccaggtaccc 80

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ttcagtggca gtggatca 78

<211> 78

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ctgccactga accttgat 78

<211> 78

<212> DNA

<213> Artificial Sequence

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tagagtggat gggctggata aacaccaaga gtggagagcc aacatatgct gaagagttca 60

aqqgacggtt tgtcttctct 80

<211> 80

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tcagctttga ggctgctgat ctgcaaatag gcagtgctga cagaggtgtc caaagagaag 60

acaaaccgtc ccttgaactc . 80

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<212> DNA

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agggacggtt taccttcacc 80

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<212> DNA

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gtaaaccgtc ccttgaactc 80

<210> 68

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<212> DNA

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acctgggacc tatgcatg 80

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ccacagcagc agcaacgc 78

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tgggaatatt cacaatta 78

<210> 71

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ctgccactga accttgat 78

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Tyr Pro Arg Ser Ile Tyr Ile Arg Arg Arg His Pro Ser Pro Ser Leu  
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Thr Thr

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Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
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Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Gln Xaa Ser Leu Xaa Ile Asn Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp  
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Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
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Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly  
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Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Lys Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Xaa Ile Asn Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser His Tyr Cys Gln His Phe Trp Thr Thr Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
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1 5 10 15

Xaa Xaa Val Thr Xaa Thr Cys Arg Ala Ser Gly Asn Ile His Asn Tyr  
20 25 30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
35 40 45

Tyr Asn Ala Xaa Thr Leu Ala Xaa Gly Val Pro Ser Arg Phe Ser Gly  
50 55 60

Ser Gly Ser Gly Thr Xaa Xaa Xaa Leu Xaa Ile Xaa Ser Leu Gln Pro  
65 70 75 80

Glu Asp Phe Gly Ser Xaa Tyr Cys Gln His Phe Trp Xaa Xaa Pro Trp  
85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys  
100 105

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		20					25						30		

Gly	Met	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp	Met
		35				40						45			

Gly	Trp	Ile	Asn	Thr	Lys	Ser	Gly	Glu	Pro	Thr	Tyr	Ala	Glu	Glu	Phe
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Thr Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr  
20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met  
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60

Lys Gly Arg Phe Xaa Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Xaa  
65 70 75 80

Leu Gln Ile Xaa Asn Xaa Xaa Asn Glu Asp Xaa Ala Thr Tyr Phe Cys  
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Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
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Thr Ser Val Thr Val Ser Ser  
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Thr Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met  
35 40 45

Gly Trp Ile Asn Thr Lys Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
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Gln Ile Gln Leu Val Gln Ser Gly Xaa Glu Xaa Lys Lys Pro Gly Xaa  
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Xaa Val Lys Ile Ser Cys Xaa Ala Ser Gly Tyr Thr Phe Thr Xaa Tyr  
20 25 30

Gly Met Asn Trp Val Xaa Gln Ala Pro Gly Xaa Gly Leu Xaa Trp Met  
35 40 45

Gly Trp Ile Asn Thr Xaa Ser Gly Glu Pro Thr Tyr Ala Glu Glu Phe  
50 55 60

Lys Gly Arg Phe Xaa Phe Xaa Leu Xaa Thr Ser Xaa Ser Thr Ala Xaa  
65 70 75 80

Leu Xaa Ile Xaa Xaa Xaa Xaa Xaa Asp Xaa Ala Xaa Tyr Phe Cys  
85 90 95

Ala Arg Trp Val Pro Gly Thr Tyr Ala Met Asp Tyr Trp Gly Gln Gly  
100 105 110

Thr Xaa Val Thr Val Ser Ser  
115

115  
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